

Work Order ID 140952

140952

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January 26, 2016 11:15:43 AM

Ship ASAP

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID:
 Item Name: AS350 Cable Cutter System Stop *NS2*
 Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 3/7/2016 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: 31A Date: 20160126 Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
646.4000	<u>B C</u>

100 Document Control 0.00
 100
 DC DOCUMENT CONTROL
 Memo 0.00
 Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP 646.4001

DAS
 28
 9-89
 MAR 17 2016

110 Pick Kit 0.00
 110
 Packaging Memo 0.00
 Packaging

DAS
 27
 9-89

DAS
 27
 9-89

FEB 09 2016

120 QC4- 100% Inspect kits for completeness 0.00
 120
 QC Memo 0.00
 Quality Control

DAS
 28
 9-89

MAR 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER :							

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Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AS350 Cable Cutter System
Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 3/7/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Sold

QAS
27
MAR 17 2016

MS MAR 17 2016

MS MAR 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Picklist Print

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646 3301* Upper Cutter Assy DAS 28 9-89		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>					
				cck018				4					
				136497				2					
				140115				2					
646.3001 *646 3001* Lower Cutter Assy DAS 28 9-89		Manufactured	No			110	Each	0.0000	1	1			
646.2910 *646 2910* Deflector DAS 28 9-89		Manufactured	No			110	Each	2.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>					
				CCK050				2					
				136136				2					
646.3810 *646 3810* Bracket DAS 28 9-89		Manufactured	No			110	Each	0.0000	2	2			
646.3510 *646 3510* Strut DAS 28 9-89		Manufactured	No			110	Each	0.0000	1	1			
646.3511 *646 3511* Strut DAS 28 9-89		Manufactured	No			110	Each	0.0000	1	1			

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Work Order ID: 140952

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

647.0112

Manufactured No

110

Each

55.0000

2

2

DAS

6

9-89

647 0112

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK107

55

M130388

55

647.7703

Manufactured No

110

Each

8.0000

2

2

DAS

6

9-89

647 7703

Strut Assembly

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK114

8

139295

8

NAS1149F0332P

Purchased

No

110

Each

2,571.000

138

138

DAS

6

9-89

NAS1149F0332P

Washer

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

396

m133709

396

ST260a

1500

m134055

1500

ST262

675

m133709

4

m133938

671

1/20/16

NAS1149F0332P 2X 124555

DAS
6
9-89

DAS
28
9-89

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Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

2,723.000

61

61

MS21042L3

Nut

DAS
6
9-89
27
9-89

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

365

m133790

365

646.3110

Manufactured

No

110

Each

2.0000

1

1

646 3110

Channel

DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

2

136492

2

646.3710

Manufactured

No

110

Each

9.0000

1

1

646 3710

Doubler

DAS
6
9-89
27
9-89

Location

Loc Qty

Loc Code

CCK002

9

127550

9

646.3210

Manufactured

No

110

Each

4.0000

1

646 3210

Support

DAS
6
9-89
27
9-89

Location

Loc Qty

Loc Code

cck020

4

136217

4

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713

Manufactured No

110

Each

12.0000

1

1

646 3713

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

12

138216

12

MS24694-S51

Purchased No

110

Each

231.0000

5

5

MS24694-S51

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

231

m130928

31

m133990

200

AN3-13A

Purchased No

110

Each

36.0000

1

1

AN3-13A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

13

m131305

13

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89
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Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

110 Each 332.0000 10 10

AN3-4A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003 250
m133990 250
ST350 82
m129682 10
m133694 72

**

DAS

6

9-89

DAS
27
9-89

CR3213-5-3 Purchased No

110 Each 116.0000 14 14

CR3213-5-3

Cherry Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST319 116
m130388 16
m132763 100

**

132677

DAS

6

9-89

DAS
27
9-89

MS20470AD5-5.5 Purchased No

110 Each 1,070.000 8 8

MS20470AD5-5 5

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309 1070
123425 79
m134063 991

**

DAS

6

9-89

DAS
27
9-89

646.3711 Manufactured No

110 Each 20.0000 1 1

646 3711

Clip

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105 20
120626 20

**

DAS

6

9-89

DAS
27
9-89

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

110 Each

10.0000

1

1

DAS

646.3712

Clip

**

6

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

10

120630

10

646.3811

Manufactured No

110 Each

6.0000

1

1

DAS

646.3811

Radius Block

**

6

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

6

122938

6

AN3-6A

Purchased No

110 Each

402.0000

2

2

DAS

AN3-6A

Bolt

**

6

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

300

M133932

125

M134055

175

ST306

2

M131305

2

ST349

100

M133561

100

MS24694-S55

Purchased No

110 Each

129.0000

1

MS24694-S55

Screw

**

DAS

6

9-89

DAS
28
89

Location

Loc Qty

Loc Code

ST283

129

m132803

46

m133988

83

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610 Manufactured No

110 Each 0.0000 1 1

646 3610

DAS

Filler 28

646.3714 9-89

Manufactured No

110 Each 2.0000 1 1

646 3714

Gusset

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

2

120632

2

110 Each 960.0000 8 8

MS20470AD5-6

Purchased No

MS20470AD5-6

RIVET

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

70

105433

70

110 Each 0.0000 2 2

646.3812

Manufactured No

646 3812

Gusset Bracket 28

AN3-3A 9-89

Purchased No

110 Each 267.0000 4 4

AN3-3A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

ST350

267

m131624

101

m133833

66

m134034

100

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Work Order ID: 140952

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Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

110 Each 5.0000 1 1

646 3813

Strut Bracket

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

5

127453

1

138267

4

**

140119

DAS
27
9-89

MS20470AD5-7

Purchased No

110 Each 506.0000 3 3

MS20470AD5-7

Rivet

DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

506

123425

506

**

DAS
6
9-89

MS21047-3

Purchased No

110 Each 225.0000 18 18

MS21047-3

Nut Plate

DAS
28
9-89

Location

Loc Qty

Loc Code

ST301

225

m133790

25

m133938

100

m134055

100

**

DAS
6
9-89

CCR264SS3-02

Purchased No

110 Each 352.0000 36 36

CCR264SS3-02

Rivet, Cherry

DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

352

M133790

152

M134023

200

**

DAS
27
9-89

FEB 29 2016

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Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A Purchased No

110 Each 222.0000 2 2

AN3-5A

Bolt

**

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FP001	24	
m133686	24	
ST350	198	
m133686	78	
m134055	120	

FEB 20 2016

646.3715 Manufactured No

110 Each 17.0000 2 2

646 3715

Strut Doubler

DAS
28
9-89

**

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
cck105	17	
139892	17	

DAS
27
6
9-89

FEB 27 2016

MS27039-1-12 Purchased No

110 Each 185.0000 6 6

MS27039-1-12

Screw

**

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
over006	100	
m133988	100	
ST280	85	
m133483	85	

DAS
27
6
9-89
FEB 29 2016

646.3716 Manufactured No

110 Each 6.0000 1 1

646 3716

Gauge Bracket

DAS
28
9-89

**

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
cck105	6	
136410	6	

DAS
27
6
9-89

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Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

110

Each

1,057.000

2

2

MS20426AD5-7

RIVET

DAS

6

9-89

DAS
6
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST311

1057

M132767

14

M133922

1043

MS24694-S54

Purchased

No

110

Each

156.0000

2

2

MS24694-S54

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

ST284

156

m133134

56

m134063

100

MS27039-1-21

Purchased

No

110

Each

371.0000

4

4

MS27039-1-21

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

130

m127904

130

MS27039-1-20

Purchased

No

110

Each

170.0000

2

2

MS27039-1-20

Screw

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

170

124326

170

DAS

6

9-89

DAS
6
27
9-89

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

110

Each

333.0000

22

22

DAS

6

9-89

MS27039-1-19

Screw

DAS

28

9-89

Location

Loc Qty

Loc Code

over006

250

m133932

100

m134055

150

ST280

83

m133938

83

646.3717

Manufactured

No

110

Each

1.0000

1

1

646 3717

Doubler

DAS

28

9-89

Location

Loc Qty

Loc Code

cck105

1

120633

1

646.3718

Manufactured

No

110

Each

11.0000

2

2

646 3718

Custom Washer

DAS

28

9-89

Location

Loc Qty

Loc Code

cck105

11

136223

11

646.3719

Manufactured

No

110

Each

17.0000

2

2

646 3719

Doubler

DAS

28

9-89

Location

Loc Qty

Loc Code

cck105

17

139893

17

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Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

146.0000

2

2

MS27039-1-10

SCREW

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

55

m132677

55

**

134164

DAS

6-27

9-89

9-89

AN3-11A

Purchased

No

110

Each

173.0000

10

10

AN3-11A

Bolt

DAS
28
9-89

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

73

m133561

73

**

10

DAS

6-27

9-89

9-89

600.0990

Purchased

No

110

Each

23.0000

1

1

600 0990

Magnabond 6398 Part A

7/15/16
DAS
28
9-89

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

11

M133938

11

**

FEB 29 2016

DAS

6-27

9-89

9-89

Picklist Print

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Page 13

Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991

Purchased

No

110

Each

23.0000

1

1

600 0991

MAGNOBOND 6398 PART B

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

11

m133938

11

600.1012

Purchased

No

110

Each

23.0000

1

1

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

22

m133800

6

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

600.0129

Purchased

No

110

f

493.0000

8

8

600 0129

VHB TAPE 75935A651

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK095

493

m127920

293

m131311

200

600.1013

Purchased

No

110

Each

845.0000

5

5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK095

845

m131145

845

6/15/2016

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Shop Packet Print

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Picklist Print

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Page 14

Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3910

Manufactured No

110

Each

28.0000

4

4

646 3910

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

28

136478

28

**

146772

DAS
6
9-89

DAS
6
9-89

646.3911

Manufactured No

110

Each

60.0000

1

1

646 3911

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

17

126229

17

CCK106

43

126059

43

**

DAS
6
9-89

DAS
6
9-89

646.3912

Manufactured No

110

Each

12.0000

4

4

646 3912

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK106

12

123143

2

124501

10

**

140238

DAS
6
9-89

DAS
6
9-89

646.3913

Manufactured No

110

Each

99.0000

1

1

646 3913

Shim

DAS
28
9-89

Location

Loc Qty

Loc Code

cck023aq

81

126060

81

CCK106

18

124108

18

**

FEB 27 2016

DAS
6
9-89

DAS
6
9-89

Picklist Print

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Page 15

Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

110

Each

85.0000

2

2

AN3-12A

Bolt

**

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

2

m129682

2

ST349

83

m133064

16

m133234

67

MS27039-1-16

Purchased

No

110

Each

294.0000

24

24

MS27039-1-16

Screw

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

294

m131317

8

mm134023

286

650.9201

Manufactured

No

110

Each

11.0000

2

2

650 9201

Eyelet Bracket Assembly

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck127

11

136606

11

AN44-5A

Purchased

No

110

Each

24.0000

2

2

AN44-5A

Eyebolt

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST339

24

m133790

12

m133990

12

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Shop Packet Print

Page 15

Picklist Print

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

110

Each

46.0000

2

2

AN665-34R

Clevis

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST330

46

M133523

26

M134029

10

st330

10

AN4C7A

Purchased

No

110

Each

104.0000

2

2

AN4C7A

BOLT

**

DAS
28
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

14

m133363

14

ST345

70

m133790

20

m133990

50

NAS1149F0432P

Purchased

No

110

Each

1,588.000

4

4

NAS1149F0432P

WASHER

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

463

M133938

463

st268

125

M132677

125

FEB 09 2016

Picklist Print

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Page 17

Work Order ID: 140952

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140952

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

3,610.000

2

2

MS21042L 4

Locknut

DAS
6
9-89

DAS
27
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST007

1500

m134055

1500

ST303

1946

m133769

1946

ST305

97

m130922

97

AN316C4R

Purchased

No

110

Each

77.0000

2

2

AN316C4R

NUT

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST331

77

m133234

43

m133523

34

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

2

2

MS21042-3

Nut / use MS21042L3

134039

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

DAS
6
9-89

FEB 09 2016

Picklist Print

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Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

316.0000

2

2

MS27039-08-13

Screw

**

DAS
6
9-89 9-89

Location

Loc Qty

Loc Code

ST278

316

124326

316

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

2

2

MS21042-08

USE MS21042L08

**

133709

DAS
6
9-89 9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

NAS1149FN832P

Purchased

No

110

Each

3,803.000

4

4

NAS1149FN832P

Washer

**

DAS
6
9-89 9-89

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1572

M133709

1572

MS24693-C278

Purchased

No

110

Each

70.0000

5

5

MS24693-C278

Screw

**

DAS
6
9-89 9-89

Location

Loc Qty

Loc Code

ST287

70

m133998

70

DAS
28
9-89

FEB 09 2016

Picklist Print

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Page 19

Work Order ID: 140952

140952

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410

Manufactured No

110

Each

0.0000

1

1

646 9410

Shim

Ship without shims

~~#~~ 16-3-16

NOTES:

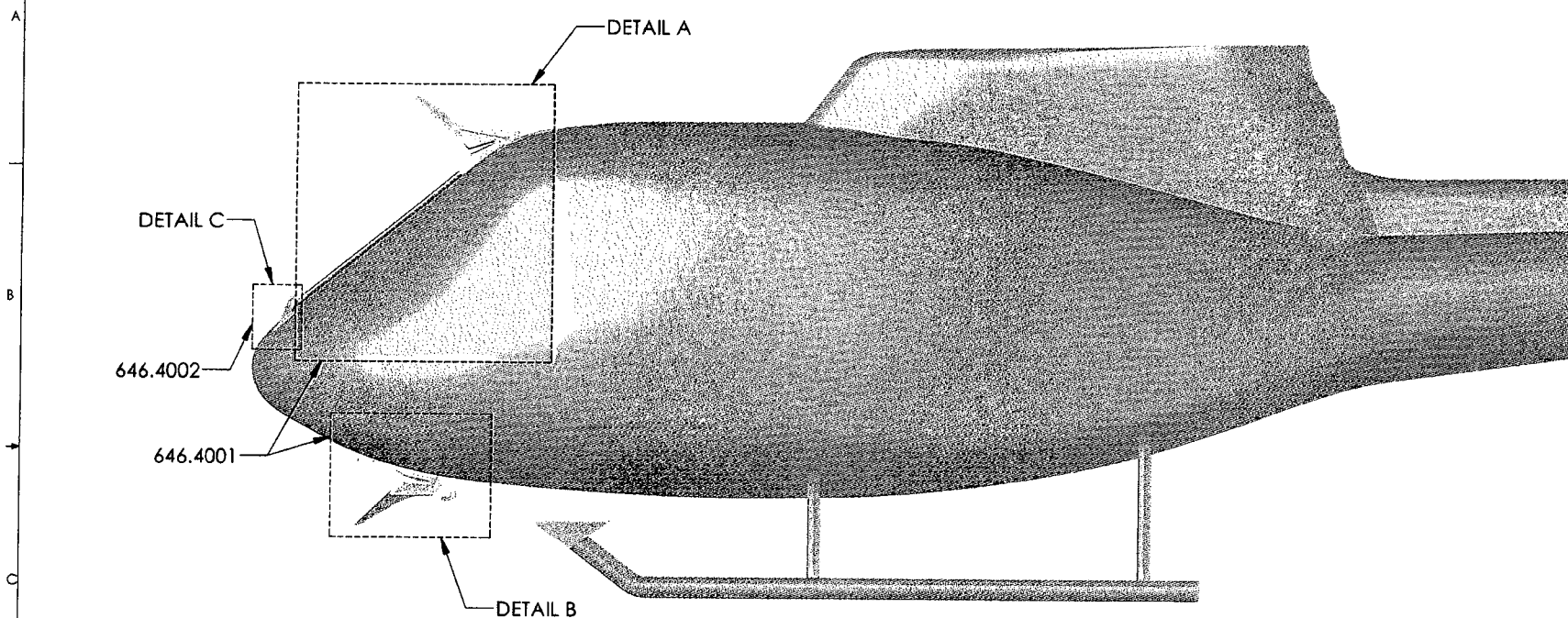
- B

D

				2		2	41	601.2829	SCREW	MS24694554
				2		2	40	601.2831	RIVET	MS20476AD5-7
				1		1	39	646.3716	GAUGE BRACKET	
				6		6	38	601.1953	SCREW	MS27039-1-12
			2			2	37	646.3715	STRUT DOUBLER	
	2		2			2	36	601.2824	BOLT	AN3-SA
12		36				36	35	601.2277	RIVET	CCR2455-909
6		18				18	34	600.0795	NUT/PLATE	MS27047-3
3		3				3	33	601.2565	RIVET	MS20470AD5-7
1		1				1	32	646.3813	STRUT BRACKET	
4		4				4	31	601.2822	BOLT	AN3-3A
2		2				2	30	646.3812	GUSSET BRACKET	
8		8				8	29	601.2564	RIVET	MS20470AD5-6
1		1				1	28	646.3714	GUSSET	
	1		1			1	27	646.3610	FILLER	
	3		3			3	26	601.2830	SCREW	MS24694555
	2		2			2	25	601.2825	BOLT	AN3-6A
	1		1			1	24	646.3811	RADIUS BLOCK	
	1		1			1	23	646.3712	CLIP	
	1		1			1	22	646.3711	CLIP	
8		8				8	21	601.2832	RIVET	MS20470AD5-5-5
14		14				14	20	601.2020	RIVET	CR3213-5-3
4	6	4	6			10	19	601.2823	BOLT	AN3-4A
	1		1			1	18	601.2827	BOLT	AN3-13A
	5		5			5	17	601.2912	SCREW	MS24694551
	1		1			1	16	646.3713	GUSSET	
	1		1			1	15	646.3210	SUPPORT	
			1			1	14	646.3710	DOUBLER	
	1		1			1	13	646.3110	CHANNEL	
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS271042L3	
16	32	18	120	16	144	11	601.1607	WASHER	MS1119T0332P	
						10	646.3410	LH WIPER DEFLECTOR		
						9	646.3411	RH WIPER DEFLECTOR		
			2		2	8	647.7703	STRUT ASSY		
			2		2	7	647.0112	STRUT BRACKET		
	1		1		1	6	646.3511	STRUT		
	1		1		1	5	646.3510	STRUT		
2		2			2	4	646.3810	BRACKET		
			1		1	3	646.2910	DEFLECTOR		
	1		1		1	2	646.3001	LOWER CUTTER ASSY		
					1	1	646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KE WITHOUT FRED PROVISIONS		
				X			646.4002	AS330 WIPER DEFLECTOR KIT		
					X		646.4001	AS330 CABLE CUTTERS KIT		
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPFC

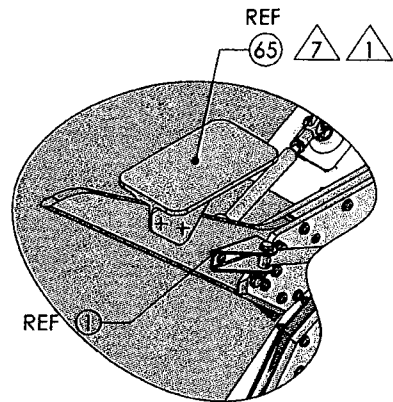
QTY		PARTS LIST		REV.	
NEXT ASSY (S)		ORIGINAL DATE 06-27-08 (MFG-DAYS) 06-27-08 DRAWN BY CHICKER 1. HUFF 2. BELAVO DRAWING APPROVAL 1. BELAVO 06-27-08 CONTRACT NO.		3030 ENTERPRISE CT. SUITE A AEROSPAC VISTA, CA 92081 (760)-724-5300 AEROSPAC AEROSPAC INDUSTRIES, INC. 1000 DART AEROSPAC	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. PUNCH DIMS. ±.010 2. PUNCH DIMS. ±.005 3. PUNCH DIMS. ±.005 4. HOLES ±.005 5. HOLES ±.005		ASS350 CABLE CUTTERS KIT SEE PAGE 0008 DWG. NO. 646.4000 SCALE NONE SHEET 1 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



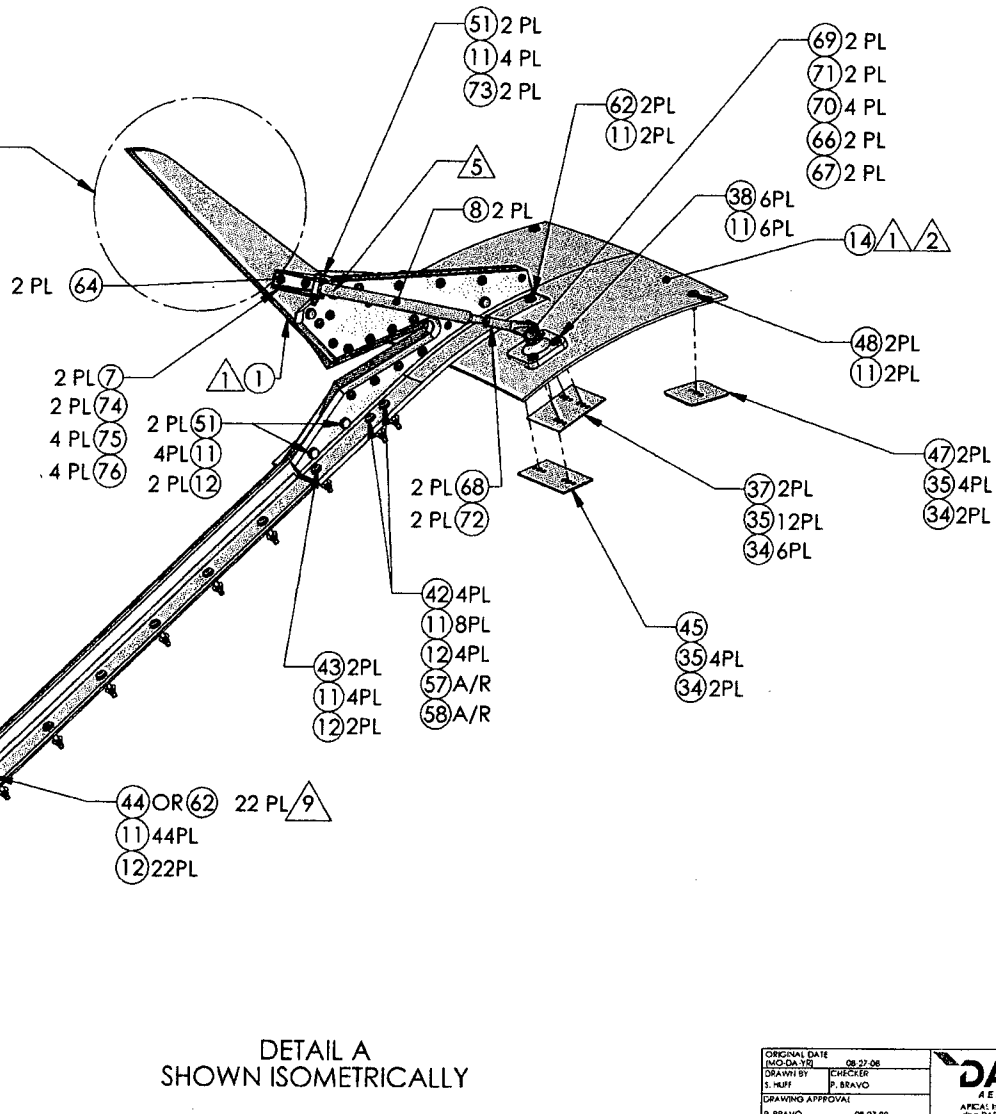
ORIGINAL DATE (DD-MM-YY) 08-27-08		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300 APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWN BY S. HUNT			
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± 0.010 3 PLACE DECIMALS ± 0.005 ANGLES $\pm 5'$			
AS350 CABLE CUTTERS KIT SIZE B CAGE CODE 07MZ6 DWG. NO. 646.4000 REV. C		SCALE NONE SHEET 2 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DDA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DDA DART AEROSPACE IS PROHIBITED.



DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

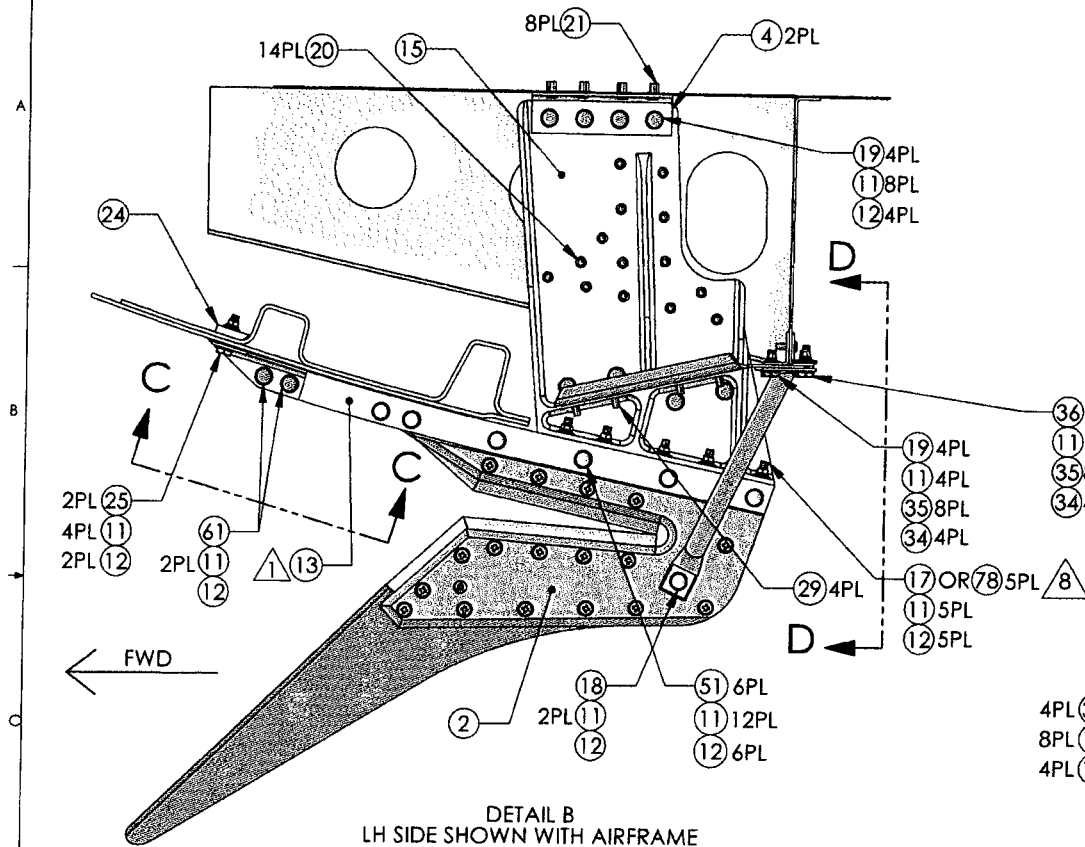
DETAIL D



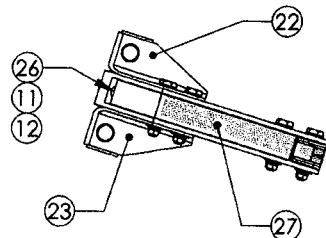
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE 08-27-06		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300	
DRAWN BY S. KUFF	CHECKED P. BRAVO	DART AEROSPACE APICAL INDUSTRIES INC. 650 DART AEROSPACE	
DRAWING APPROVAL P. BRAVO 08-27-06			
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
SIZE B	CAGE CODE 07M16	DWG. NO. 646.4000	REV. C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE SHEET 3 OF 5	

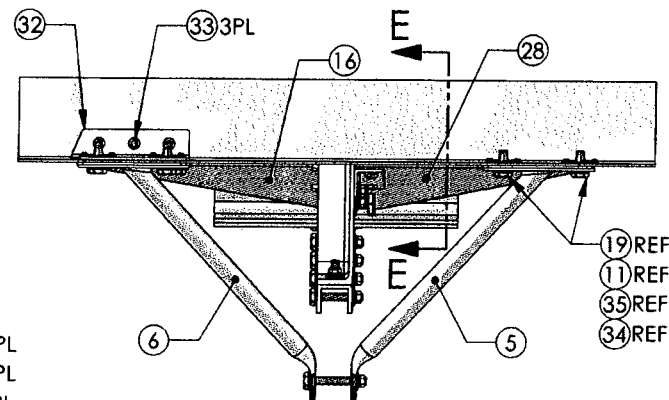
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



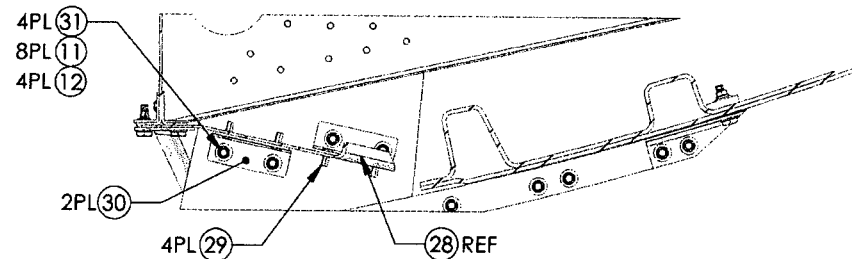
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



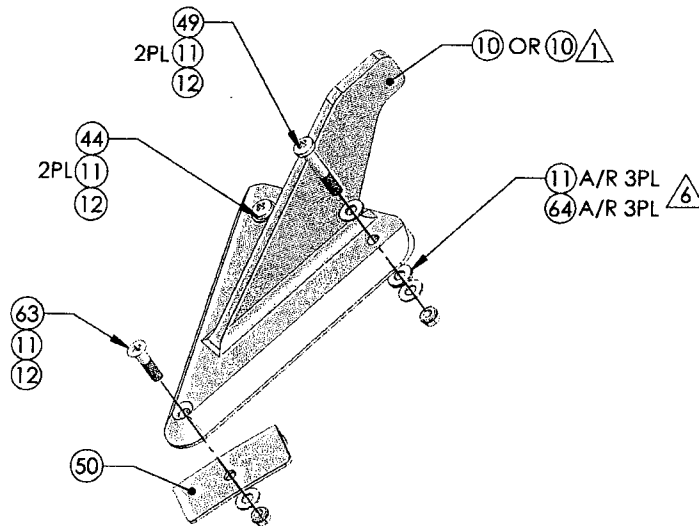
SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

ORIGINAL DATE: 06-27-08 DRAWN BY: S. HUFF CHECKED BY: P. BRAVO DRAWING APPROVAL: P. BRAVO DATE: 06-27-08 CONTRACT NO.		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 APICAL INDUSTRIES INC. (760)-724-5300 DBA DART AEROSPACE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±0.10 3 PLACE DECIMALS ±0.005 ANGLES ± 5°		AS350 CABLE CUTTERS KIT	
REV. B	CAGE CODE 07MZ6	DWG. NO. 646.4000	REV. C
SCALE: NONE		SHEET 4 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (INC-DA YR) 08-27-08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF		P. BRAVO	
DRAWING APPROVAL P. BRAVO		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± 0.010 3 PLACE DECIMALS ± 0.005 ANGLES ± 3°		REV B	REV C
SCALE NONE		SHEET 5 OF 5	

 AFTER INSTALLATION, APPLY E/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651

4 3M TAPE PRIMER 94. APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT

2 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

⚠ INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 12 SCREW.

NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

0.5304

5	5	5	78	601.3875	SCREW	MS27039-10																																																																																																																																																																																							
1	1	1	77	646.9410	SHIM	MS27039-10																																																																																																																																																																																							
	4	4	76	601.2764	WASHER	MS27039-10																																																																																																																																																																																							
	2	2	75	601.2973	LOCKNUT	MS27039-10																																																																																																																																																																																							
	2	2	74	601.2988	SCREW	MS27039-10																																																																																																																																																																																							
	2	2	73	601.2943	LOCKNUT	MS27040-3																																																																																																																																																																																							
	2	2	72	601.3128	NUT	AN316C4P																																																																																																																																																																																							
	2	2	71	601.3209	LOCKNUT	MS27039-10																																																																																																																																																																																							
	4	4	70	601.2636	WASHER	AN316C4P10452P																																																																																																																																																																																							
	2	2	69	601.2669	BOLT	AN427A																																																																																																																																																																																							
	2	2	68	601.3119	CLEVIS	AN6AS 340																																																																																																																																																																																							
	2	2	67	601.3121	EYE BOLT	AN6A 2A																																																																																																																																																																																							
	2	2	66	600.9201	EYE BRACKET ASSY																																																																																																																																																																																								
REF	REF	REF	65	647.5761	GPS MOUNT KIT																																																																																																																																																																																								
		2	64	601.3151	WASHER	MS27039-10																																																																																																																																																																																							
		2	63	601.2911	SCREW	MS27039-10																																																																																																																																																																																							
	24	24	62	601.2637	SCREW	MS27039-10																																																																																																																																																																																							
2	2	2	61	601.2763	BOLT	AN3-12A																																																																																																																																																																																							
	1	1	60	646.3913	SHIM																																																																																																																																																																																								
	4	4	59	646.3912	SHIM																																																																																																																																																																																								
	1	1	58	646.3911	SHIM																																																																																																																																																																																								
	4	4	57	646.3910	SHIM																																																																																																																																																																																								
	5	5	56	600.1013	PRIMER																																																																																																																																																																																								
	811	811	55	600.1012	VHB TAPE																																																																																																																																																																																								
	1	1	54	600.1012	SEALANT	PP-1428 CL ASS B																																																																																																																																																																																							
	1	1	53	600.0991	MAGNABOND 609B PART A																																																																																																																																																																																								
	1	1	52	600.0990	MAGNABOND 609B PART B																																																																																																																																																																																								
	6	10	10	51	601.2826	BOLT	AN3-11A																																																																																																																																																																																						
		2	50	646.3814	WIPER BRACKET																																																																																																																																																																																								
		2	49	601.2910	SCREW	MS27039-1-18																																																																																																																																																																																							
	2	2	48	601.1365	SCREW	MS27039-1-10																																																																																																																																																																																							
	2	2	47	646.3719	DOUBLER																																																																																																																																																																																								
	2	2	46	646.3718	CUSTOM WASHER																																																																																																																																																																																								
	1	1	45	646.3717	DOUBLER																																																																																																																																																																																								
	22	22	44	601.1948	SCREW	MS27039-1-19																																																																																																																																																																																							
	2	2	43	601.1952	SCREW	MS27039-1-5G																																																																																																																																																																																							
	4	4	42	601.1956	SCREW	MS27039-1-21																																																																																																																																																																																							
5026	5033	5034	5022	5023	5024	5025	5026	5027	5028	5029	5030	5031	5032	5033	5034	5035	5036	5037	5038	5039	5040	5041	5042	5043	5044	5045	5046	5047	5048	5049	5050	5051	5052	5053	5054	5055	5056	5057	5058	5059	5060	5061	5062	5063	5064	5065	5066	5067	5068	5069	5070	5071	5072	5073	5074	5075	5076	5077	5078	5079	5080	5081	5082	5083	5084	5085	5086	5087	5088	5089	5090	5091	5092	5093	5094	5095	5096	5097	5098	5099	5100	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110	5111	5112	5113	5114	5115	5116	5117	5118	5119	5120	5121	5122	5123	5124	5125	5126	5127	5128	5129	5130	5131	5132	5133	5134	5135	5136	5137	5138	5139	5140	5141	5142	5143	5144	5145	5146	5147	5148	5149	5150	5151	5152	5153	5154	5155	5156	5157	5158	5159	5160	5161	5162	5163	5164	5165	5166	5167	5168	5169	5170	5171	5172	5173	5174	5175	5176	5177	5178	5179	5180	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190	5191	5192	5193	5194	5195	5196	5197	5198	5199	5200	5201	5202	5203	5204	5205	5206	5207	5208

[illegible]



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR.

MFG

QC

EFF. NEXT ORDER

REASON: REVISED F/N 12.

ECR:
N/A

ACTION ITEM:
1. N/A

REFERENCE ONLY

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	